



Product Component

DEFINITION

<i>Name</i>	Routers
<i>Description</i>	<p>A router is a network appliance that makes a choice based on the network layer of the OSI Model to forward packets from one network to another. This choice is based on a routing table to forward packets to the next hop for a destination network. Routing tables can be populated through dynamic or static entries. The term "Router" is derived from this routing table. Routers can also be used to filter traffic through access-lists, provide quality of service, bridge networks, provide switching functions and enforce policy mapping.</p> <p>This product component covers the following devices: Cisco 70 Series, 90 Series, 700 Series, 800 Series, 1000 Series, 1100 Series, 1600 Series, 1700 Series, 1900 Series, 2500 Series, 2600 Series, 3200 Series, 3600 Series, 3700 Series, 4000 Series, 5200 Series, 6400 Series, 7200 Series, 7300 Series, 7400 Series, 7500 Series, 7600 Series, 10000 Series, 10700 Series, 12000 Series</p>
<i>Rationale</i>	<p>Routers provide the basic connectivity for internetworking by allowing different networks to communicate. Routers select the correct interface and next hop for the packet being forwarded. Routers can provide multiple redundant active paths to a destination network.</p> <p>Cisco Systems has been established as the statewide standard manufacturer for networking products by the State of Missouri. Expansion of all existing networks shall utilize Cisco products. State agencies utilizing other manufacturer's products may be maintained or replaced. However, expansion of such networks shall utilize Cisco products.</p>
<i>Benefits</i>	Routers help clear up network congestion, segment networks, provide network connectivity, increase functionality, provide filtering, enforce quality of service, provide policy mapping and allow for multiple redundant paths to a destination.

ASSOCIATED ARCHITECTURE LEVELS

<i>Specify the Domain Name</i>	Infrastructure
<i>Specify the Discipline Name</i>	Network
<i>Specify the name of the associated Technology Area</i>	Network Hardware

KEYWORDS

<i>List Keywords</i>	Router, Routing, Routing Table, Forwarding, Network Layer, OSI Model, filtering, access-lists, policy routing, RIP, IGRP, EIGRP, OSPF, BGP, SNMP, Bridging, TCP/IP, UDP, Cisco
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VENDOR INFORMATION

<i>Vendor Name</i>	IBM Global Services	<i>Website</i>	www.ibm.com/easyaccess/mo
<i>Contact Information</i>	IBMCM@US.IBM.COM		

POTENTIAL COMPLIANCE SOURCES

<i>Name</i>	Cisco Systems, Inc.	<i>Website</i>	www.cisco.com
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Contact Information	Cs-support-us.cisco.com		
Name	Office of Administration	Website	www.oa.state.mo.us
Contact Information	purchmail@mail.state.mo.us		
COMPONENT REVIEW			
List Desirable aspects	<ul style="list-style-type: none"> • Market leader with dominant market share • Leverages training and experience throughout state organizations • Compatible with most industry standards 		
List Undesirable aspects	<ul style="list-style-type: none"> • One Vendor Source • Expensive 		
Operating System	Internetworking Operating System	Platform	Cisco Routers
ASSOCIATED COMPLIANCE COMPONENTS			
Product			
List the Product-specific Compliance Component Names	See www.cisco.com for specific information regarding specific product manuals.		
Configuration Links			
List the Configuration-specific Compliance Component Names	See www.cisco.com for specific information regarding specific configuration and command reference manuals.		
COMPONENT CLASSIFICATION			
Provide the Classification	<input type="checkbox"/> Emerging <input checked="" type="checkbox"/> Current <input type="checkbox"/> Twilight <input type="checkbox"/> Sunset		
Sunset Date			
COMPONENT SUB-CLASSIFICATION			
Sub-Classification	Date	Additional Sub-Classification Information	
<input type="checkbox"/> Technology Watch			
<input type="checkbox"/> Variance			
<input type="checkbox"/> Conditional Use			
RATIONALE FOR COMPONENT CLASSIFICATION			
Document the Rationale for Component Classification	State of Missouri Contract – C202069001		
MIGRATION STRATEGY			
Document the Migration Strategy	State of Missouri Contract – C202069001		
IMPACT POSITION STATEMENT			
Document the Position Statement on Impact	This contract affects purchases for any networking equipment from OSI layer 2 switches to OSI layer 3 and higher capable devices.		
AGENCIES			
List the Agencies Currently Utilizing this Product	All		

CURRENT STATUS

Provide the Current Status

☐ *In Development*

☐ *Under Review*

☒ *Approved*

☐ *Rejected*

AUDIT TRAIL

Creation Date

4-7-2004

Date Approved / Rejected

5-11-04

Reason for Rejection

Last Date Reviewed

Last Date Updated

Reason for Update